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UG Mechanical 2024-25 PYQP

UG Mech Even sem 2024-25 QP

2025-05-05

HEAVY VEHICLE TECHNOLOGY

Department of Mechanical Engineering – SEAS

SRM UNIVERSITY A.P

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SRM UNIVERSITY – AP, ANDHRA PRADESH

End Term Examination, May 2025

[Question Paper ID: 008855]

Subject : HEAVY VEHICLE TECHNOLOGY
Title
Batch : 2022
Degree : B.Tech.
Branch : ME

Subject : MCE 470
Code
Max Marks : 50
Duration : 2 hours
QP Set : ---

Section-A (5 × 10 Marks = 50 Marks)

Answer **any 5** Questions

			Marks	BL	CO
1.	Derive the equation for the thermal efficiency of the Otto cycle.	10	10	2	1
2.	Describe the types of suspension system used in heavy vehicle.	10	10	2	2
3.	Explain the types of braking systems used in automobiles.	10	10	1	3
4.	Describe the working principle of an electric vehicle, including details about its functioning components.	10	10	1	3
5.	Explain the working principle of differentials and their types.	10	10	1	4
6.	Derive the equation for the mean effective pressure for Diesel cycle.	10	10	3	2
7.	Explain the engine performance diagnostics worksheet for a heavy vehicle.	10	10	2	4

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